



WD GAU 1644/Box Seq

MORPHO/7

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : Amy DeCloux  
Group Art Unit : 1644  
Applicant : Pluckthun, Andreas et al.  
Serial No. : 09/232,290  
Filed : January 15, 1999  
For : IMMUNOGLOBULIN SUPER FAMILY DOMAINS AND  
FRAGMENTS WITH INCREASED STABILITY

New York, New York  
December 1, 1999

Hon. Assistant Commissioner  
for Patents  
Washington, D.C. 20231

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STATEMENT IN SUPPORT OF COMPUTER READABLE  
FORM SUBMISSION UNDER 37 C.F.R. § 1.821(e)

Sir:

I hereby state that the copy of the computer readable form, submitted in the above-identified application in accordance with 37 C.F.R. § 1.825(e), is the same as the Sequence Listing filed concurrently herewith.

Respectfully submitted,

*Scott Miller*

James F. Haley, Jr. (Reg. No. 27,794)  
Attorney for Applicants  
Scott D. Miller (Reg. No. 43,803)  
Agent for Applicants  
c/o FISH & NEAVE  
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Tel.: (212) 596-9000

I Hereby Certify that this Correspondence is being Deposited with the U.S. Postal Service as First Class Mail in an Envelope Addressed to: ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231 on

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PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/232,290DATE: 12/21/1999  
TIME: 00:57:54

INPUT SET: S34297.raw

This Raw Listing contains the General  
Information Section and those Sequences  
containing ERRORS.

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SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: Pluckthun, Andreas  
Nieba, Lars  
Honegger, Annemarie

(ii) TITLE OF INVENTION: Immunoglobulin Super Family Domains and Fragments with

(iii) NUMBER OF SEQUENCES: 60

(iv) CORRESPONDENCE ADDRESS:  
(A) ADDRESSEE: James F. Haley, Jr., Esq. c/o FISH & NEAVE  
(B) STREET: 1251 Avenue of the Americas  
(C) CITY: New York  
(D) STATE: New York  
(E) COUNTRY: United States of America  
(F) ZIP: 10020

(v) COMPUTER READABLE FORM:  
(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

(vi) CURRENT APPLICATION DATA:  
add → (A) APPLICATION NUMBER: WO PCT/EP96/02230  
→ (B) FILING DATE? ↓ goes under PRIOR APP DATA:

(vii) PRIOR APPLICATION DATA:  
(A) APPLICATION NUMBER: EP 95 10 7914.4  
(B) FILING DATE: 23-MAY-1995  
(C) APPLICATION NUMBER: WO PCT/EP96/02230  
(D) FILING DATE: 23-MAY-1996

(viii) ATTORNEY/AGENT INFORMATION:  
(A) NAME: James F. Haley, Jr., Esq.  
(B) REGISTRATION NUMBER: 27,794  
(C) ~~DOCKET NUMBER~~: MORPHO/7  
REFERENCE/DOCKET NUMBER

(ix) TELECOMMUNICATION INFORMATION:  
(A) TELEPHONE: (212) 596-9000  
(B) TELEFAX: (212) 596-9090

INPUT SET: S34297.raw

46

## ERRORED SEQUENCES FOLLOW:

156 (2) INFORMATION FOR SEQ ID NO: 4:  
157  
158 (i) SEQUENCE CHARACTERISTICS:  
--> OK 159 (A) LENGTH: 113 amino acids  
160 (B) TYPE: amino acid  
161 (C) STRANDEDNESS: single  
162 (D) TOPOLOGY: linear  
163  
164 (ii) MOLECULE TYPE: protein  
165  
166  
167  
168 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
169  
170 Asp Val Val Met Thr Gln Thr Pro Leu Ser Leu Pro Val Ser Leu Gly  
171 1 5 10 15  
172  
173 Asp Gln Ala Ser Ile Ser Cys Arg Ser Ser Gln Ser Leu Val His Ser  
174 20 25 30  
175  
176 Asn Gly Asn Thr Tyr Leu His Trp Tyr Leu Gln Lys Pro Gly Gln Ser  
177 35 40 45  
178  
179 Pro Lys Leu Leu Ile Tyr Lys Val Ser Asn Arg Phe Ser Gly Val Pro  
180 50 55 60  
181  
182 Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Tyr Leu Lys Ile  
183 65 70 75 80  
184  
185 Ser Arg Val Glu Ala Glu Asp Leu Gly Val Tyr Phe Cys Ser Gln Ser  
186 85 90 95  
187  
--> 188 Thr His Val Pro Leu Thr Phr Gly Ala Gly Thr Lys Leu Glu Leu Lys  
189 100 105 110  
190  
191 Arg  
192 ~~113~~  
193  
194 delete - number the amino acids under every 5 amino acids

*inserted*

---

195 (2) INFORMATION FOR SEQ ID NO: 5:  
196  
197 (i) SEQUENCE CHARACTERISTICS:  
--> OK 198 (A) LENGTH: 106 amino acids  
199 (B) TYPE: amino acid  
200 (D) TOPOLOGY: linear

*next page*

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/232,290DATE: 12/21/1999  
TIME: 00:57:54

INPUT SET: S34297.raw

201  
202 (ii) MOLECULE TYPE: protein  
203  
204  
205 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
206  
207 Asp Ile Gln Met Thr Gln Ser Pro Ser Thr Leu Ser Ala Ser Val Gly  
208 1 5 10 15  
209  
--> 210 Asp Art Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Arg Trp  
211 20 25 30  
212 *invited*  
213 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Val Pro Lys Leu Leu Ile  
214 35 40 45  
215  
216 Tyr Lys Ala Ser Ser Leu Glu Ser Gly Val Pro Ser Arg Phe Ser Gly  
217 50 55 60  
218  
219 Ser Gly Ser Gly Thr Glu Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
220 65 70 75 80  
221  
222 Asp Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Tyr Asn Ser Tyr Ser Phe  
223 85 90 95  
224  
225 Gly Pro Gly Thr Lys Val Asp Ile Lys Arg  
226 100 105  
227  
228

---

229 (2) INFORMATION FOR SEQ ID NO: 6:  
230  
231 (i) SEQUENCE CHARACTERISTICS:  
232 (A) LENGTH: 108 amino acids  
233 (B) TYPE: amino acid  
234 (C) STRANDEDNESS: single  
235 (D) TOPOLOGY: linear  
236  
237 (ii) MOLECULE TYPE: protein  
238  
239  
240 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
241  
242 Asp Ile Gln Met Thr Gln Ser Pro Ala Ser Leu ser Ala Ser Val Gly  
243 1 5 10 15  
244  
245 Glu Thr Val Thr Ile Thr Cys Thr Ala Ser Gly Asn Ile His Asn Tyr  
246 20 25 30  
247  
248 Leu Ala Trp Tyr Gln Gln Lys Gln Gly Lys Ser Pro Gln Leu Leu Val  
249 35 40 45  
250  
251 Tyr Tyr Thr Thr Thr Leu Ala Asp Gly Val Pro Ser Arg Phe Ser Gly  
252 50 55 60

*next page*

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/232,290

 DATE: 12/21/1999  
 TIME: 00:57:55

INPUT SET: S34297.raw

253  
 254 Ser Gly Ser Gly Thr Gln Tyr Ser Leu Lys Ile Asn Ser Leu Gln Pro  
 255 65 70 75 80  
 256  
 --> 257 Glu **Aps** Phe Gly Ser Tyr Tyr Cys Gln His Phe Trp Ser Thr Pro Arg  
 258 85 90 95  
 259  
 260 Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg  
 261 100 105  
 262  
 263  
 264

---

 446 (2) INFORMATION FOR SEQ ID NO: 12:

447  
 448 (i) SEQUENCE CHARACTERISTICS:  
 --> 449 (A) LENGTH: 114 amino acids  
 450 (B) TYPE: amino acid  
 451 (C) STRANDEDNESS: single  
 452 (D) TOPOLOGY: linear  
 453  
 454 (ii) MOLECULE TYPE: protein  
 455  
 456  
 457 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:  
 458  
 --> 459 Asp Ile **Cal** Met Thr Gln Ser Pro Ser Ser Leu Thr Val Thr Ala Gly  
 460 1 5 10 15  
 461 *invalid*  
 462 Glu Lys Val Thr Met Ser Cys Thr Ser Ser Gln Ser Leu Phe Asn Ser  
 463 20 25 30  
 464  
 465 Gly Lys Gln Lys Asn Tyr Leu Thr Trp Tyr Gln Gln Lys Pro Gly Gln  
 466 35 40 45  
 467  
 468 Pro Pro Lys Val Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val  
 469 50 55 60  
 470  
 471 Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr  
 472 65 70 75 80  
 473  
 474 Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys Gln Asn  
 475 85 90 95  
 476  
 477 Asp Tyr Ser Asn Pro Leu Thr Phe Gly Gly Gly Thr Lys Leu Glu Leu  
 478 100 105 110  
 479  
 480 Lys Arg  
 481  
 482  
 483  
 484  
 485

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/232,290DATE: 12/21/1999  
TIME: 00:57:55

INPUT SET: S34297.raw

2087 (2) INFORMATION FOR SEQ ID NO: 57:  
2088  
2089 (i) SEQUENCE CHARACTERISTICS:  
2090 (A) LENGTH: 113 amino acids  
2091 (B) TYPE: amino acid  
2092 (D) TOPOLOGY: linear  
2093  
2094 (ii) MOLECULE TYPE: protein  
2095  
2096  
2097 + delete  
2098 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:  
2099  
2100 insert Asp Val Gln Leu Gln Glu Ser Gly Pro Ser Leu Val Lys Pro Ser Gln  
2101 1 5 10 15  
2102  
--> 2103 Thr Leu Ser Leu Thr Cys Ser Val Thr Gly Asp Ser Ile Thr Ser Asp  
--> 2104 20 25 30  
2105  
--> 2106 Tyr Trp Ser Trp Ile Arg Lys Phe Pro Gly Asn Arg Leu Glu Tyr Met  
--> 2107 35 40 45  
2108  
--> 2109 Gly Tyr Val Ser Tyr Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Lys  
--> 2110 50 55 60  
2111  
--> 2112 Ser Arg Ile Ser Ile Thr Arg Asp Thr Ser Lys Asn Gln Tyr Tyr Leu  
--> 2113 65 70 75 80  
2114  
--> 2115 Asp Leu Asn Ser Val Thr Thr Glu Asp Thr Ala Thr Tyr Tyr Cys Ala  
--> 2116 85 90 95  
2117  
--> 2118 Asn Trp Asp Gly Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser  
--> 2119 100 105 110  
2120  
--> 2121 Ala  
--> 2122 ~~113~~  
2123

2162 (2) INFORMATION FOR SEQ ID NO: 59:  
2163 (i) SEQUENCE CHARACTERISTICS:  
2164 (A) LENGTH: 118 amino acids  
2165 (B) TYPE: amino acid  
2166 (D) TOPOLOGY: linear  
2167  
2168 (ii) MOLECULE TYPE: protein  
2169  
2170  
2171 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:  
2172  
2173 Glu Val Gln Leu Asp Glu Thr Gly Gly Gly Leu Val Gln Pro Gly Arg  
2174 1 5 10 15  
2175

ignore this is due  
to above-mentioned  
error

OK FYI: All U.S. applications filed on or after July 1, 1998,  
and which do not claim a prior U.S. application, must  
be in new sequence Rule format. See attached sample  
Sequence Listing, in new format.